

Ready to build an AI project at the intersection of **finance and data-driven decision making**?



From **portfolio tracking and algorithmic trading to credit risk modeling and financial sentiment analysis**, AI is transforming how markets are analyzed, risks are managed, and financial decisions are made.

With expert mentors from global tech companies, students build real AI tools at the intersection of **finance, markets, data, and technology**.



Why Delta AI?



OUTCOMES





- ➔ A standout project for your college application**
Admissions officers look for curiosity and depth. An AI project exploring financial systems and real-world market dynamics shows both.
- ➔ A meaningful academic story tied to your passion**
Build a project worth writing about, talking about, and proudly presenting.
- ➔ Real skills that set you apart**
Learn the AI and data skills behind careers in finance, investment banking, and quantitative analysis.
- ➔ Inspired by real innovation in finance, markets, and financial technology**
Work on ideas used by real researchers and companies, adapted for your level.
- ➔ A recommendation letter that carries weight**
Your mentor writes a detailed letter speaking to your skills, growth, and work ethic.

STRUCTURE

AI Intensive 5-week cohort program

AI Immersive 25 hours of 1:1 mentorship

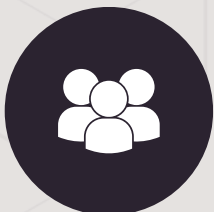
Students receive:

-  **Hands-on learning** with step-by-step guidance
-  A curriculum **built around your level**
-  A mentor **recommendation letter**
-  A **project white paper** documenting your work

Students work with mentors from leading tech companies driving the AI revolution.



Who Is This Built For?



Pre-finance, economics, and business-oriented students



Both beginner and advanced learners



Students aiming for top college applications



Students looking for 1:1 or cohort mentorship

Applications of AI in Finance



AI is transforming how we understand and navigate **financial markets**, from **research to real-world impact**.



Portfolio Analytics & Wealth Management
Portfolio tracking, performance analysis, asset allocation, benchmarking



Algorithmic Trading & Strategy Development
Trading signals, backtesting, technical indicators, market timing



Financial Data & Investment Insights
Market data analysis, APIs, time-series forecasting, decision support



Financial Sentiment & Market Intelligence
News analysis, social media sentiment, behavioral finance insights



Personal Finance & Budget Intelligence
Expense tracking, categorization, savings optimization, goal planning



Credit Risk & Lending Models
Default prediction, credit scoring, fairness & bias in lending



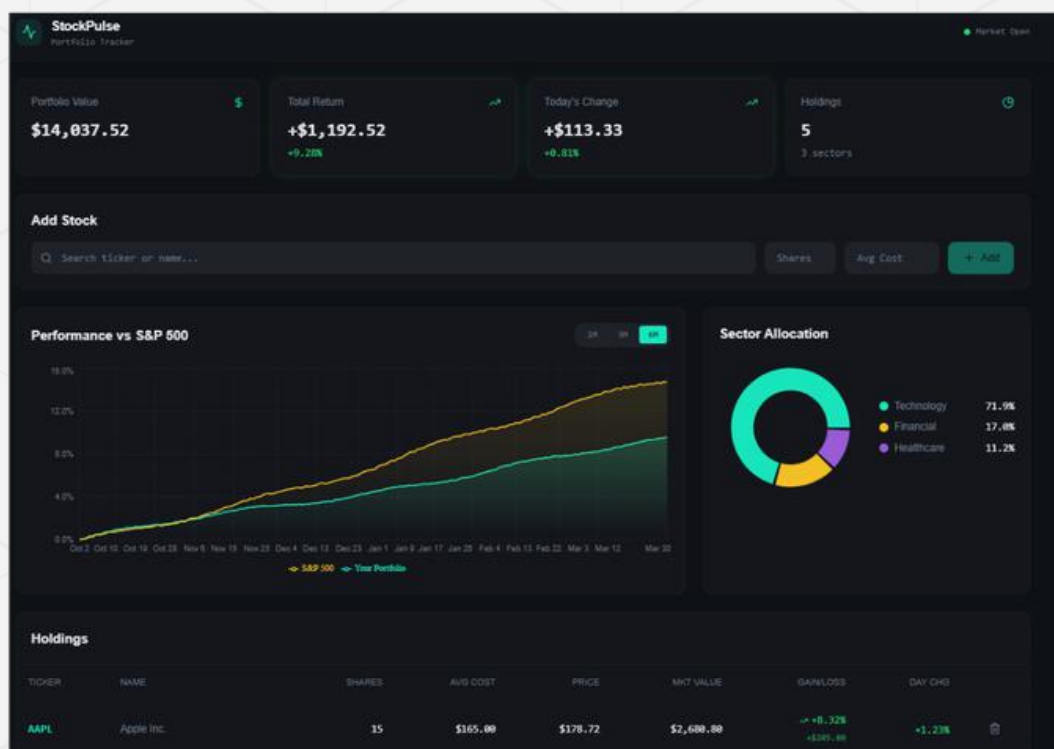
See portfolio-ready AI x Finance projects students build with Delta AI



Project Gallery

Stock Portfolio Tracker & Performance Analyzer

A portfolio analytics tool that tracks stock holdings, analyzes returns, and visualizes performance over time. The same kind of analysis used in investment research, wealth management, and financial technology.



Skills demonstrated



- Financial data cleaning and preprocessing
- NLP-based transaction classification
- Data visualization and spending analysis
- Personal finance modeling and decision-making

Real-world outcome



A fully functional portfolio tracking dashboard that analyzes performance, compares against market benchmarks, and provides data-driven insights for smarter investment decisions.

Built with



- Python (pandas, NumPy)
- Yahoo Finance / Alpha Vantage APIs
- Matplotlib / Plotly
- CSV data

Your deliverable

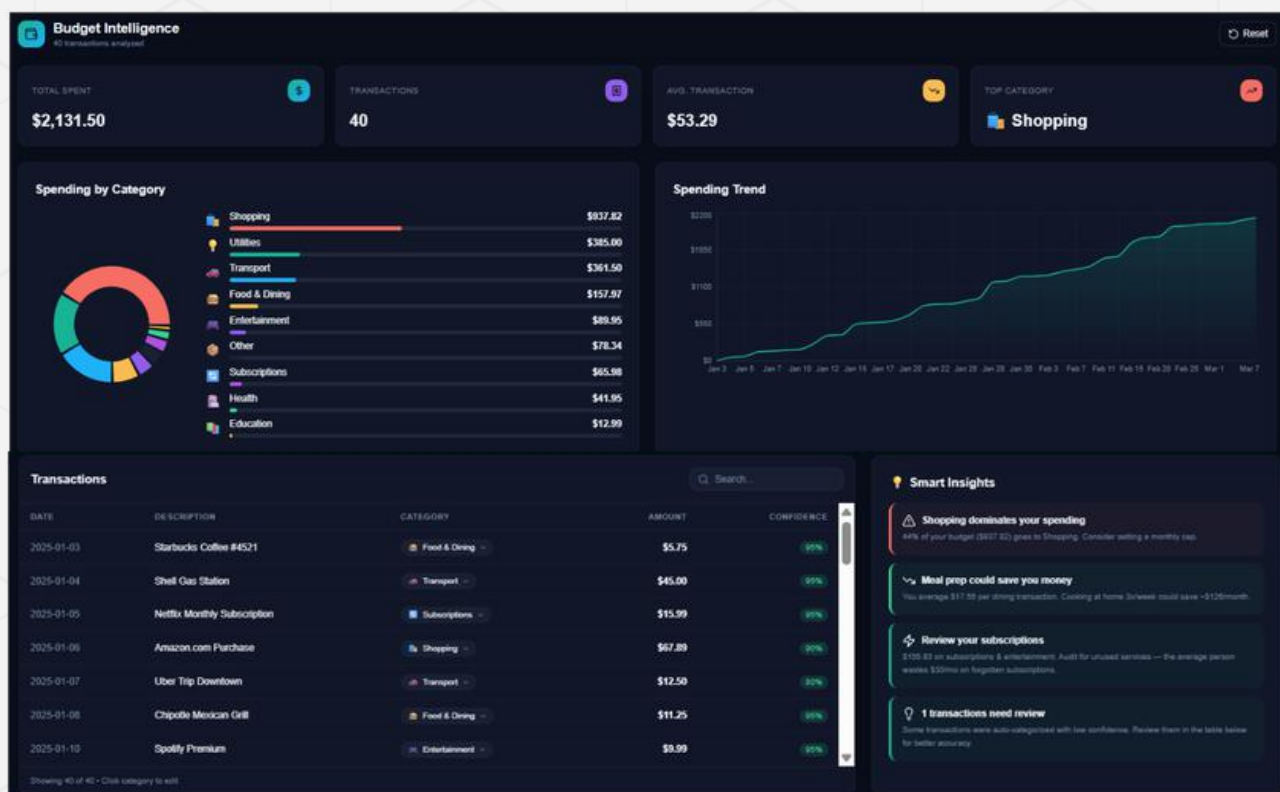


Portfolio ready live project, white paper, and public GitHub repo

Project Gallery

Personal **Budget** & Expense Intelligence **Dashboard**

A smart budgeting AI that analyzes transactions to categorize expenses, track spending patterns, and uncover saving opportunities—mirroring real-world fintech solutions.



Skills demonstrated



- Financial analysis & portfolio management
- Working with real-time financial APIs
- Data visualization & time-series analysis
- Quantitative reasoning & risk assessment




Real-world outcome



An intelligent budgeting dashboard that automatically categorizes expenses, tracks spending trends, and provides personalized insights to improve saving habits and financial planning

Built with



-  Python / JavaScript
-  Scikit-learn (Naive Bayes / Logistic Regression)
-  Matplotlib / Plotly for visualization

Your deliverable

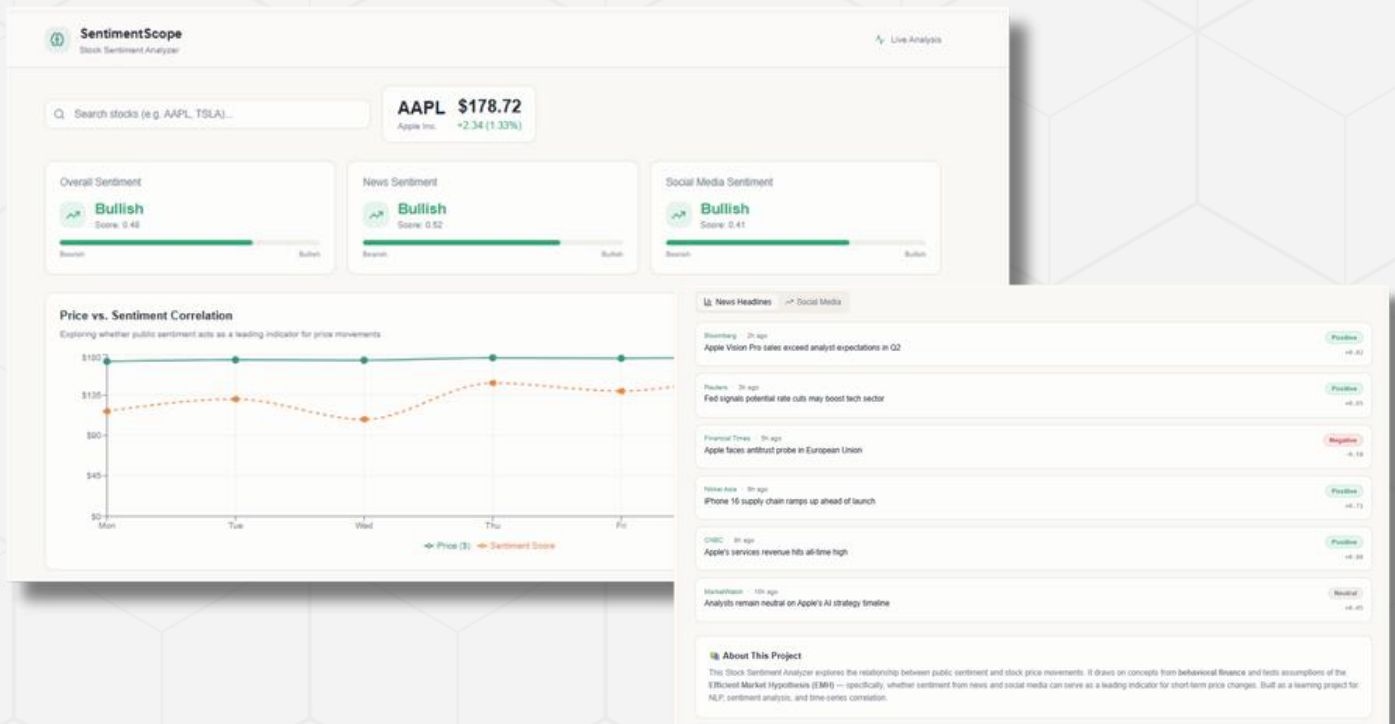


Portfolio ready live project, white paper, and public GitHub repo

Project Gallery

Stock Sentiment Analyzer **Using News & Social Media**

A financial sentiment analysis tool that processes news and social media to evaluate market sentiment and its impact on stock prices—similar to tools used by hedge funds and trading firms.



Skills demonstrated

- Natural language processing (NLP)
- VADER / FinBERT
- Financial data aggregation
- Time-series analysis & correlation with market data



Real-world outcome

An interactive dashboard that tracks market sentiment from news and social media, compares it with stock movements, and analyzes whether sentiment can predict market trends.



Built with

- Python (NLTK, transformers)
- FinBERT / VADER for sentiment analysis
- Plotly / Matplotlib



Your deliverable

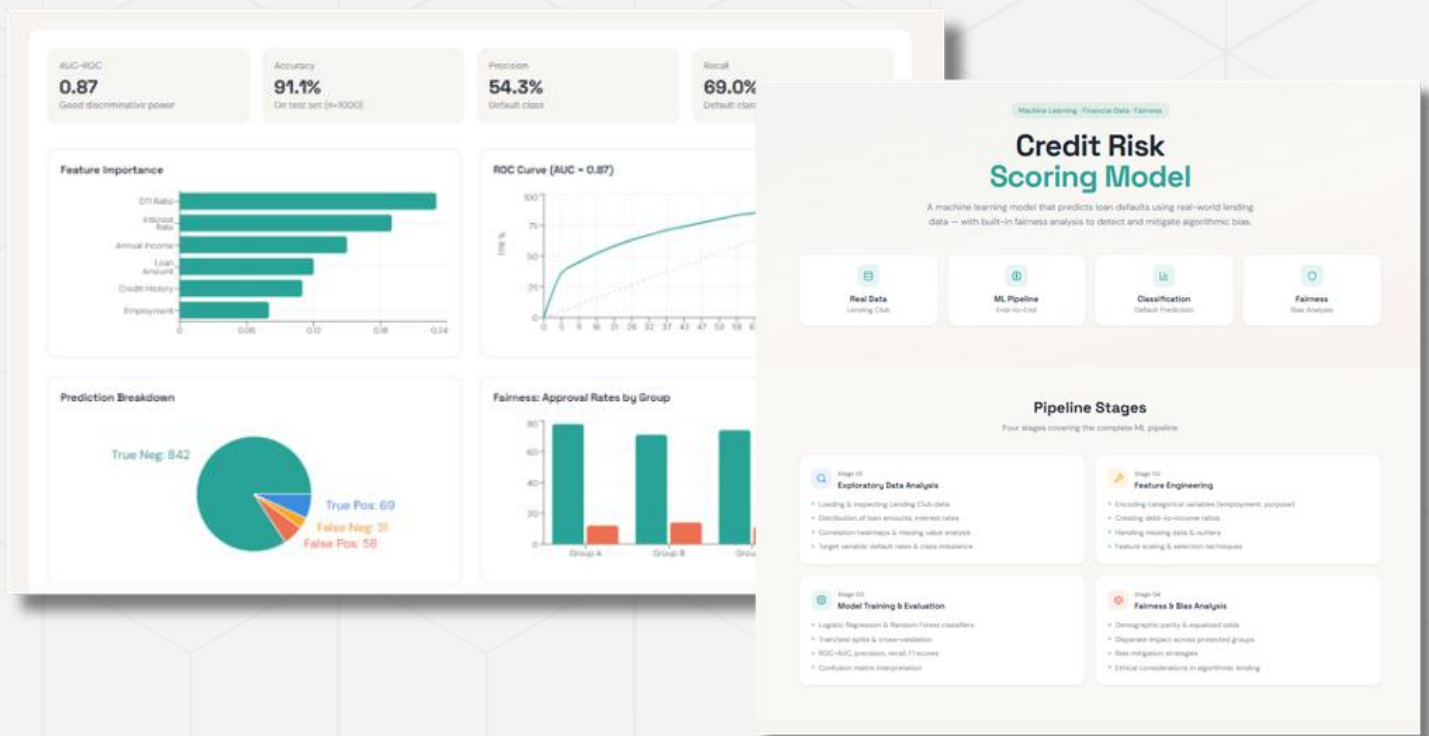


Portfolio ready live project, white paper, and public GitHub repo

Project Gallery

Credit Risk Scoring Model

A machine learning tool that predicts credit risk from borrower data and evaluates fairness in lending decisions. The same kind of technology used in fintech underwriting systems, digital lending platforms, and risk assessment applications.



Skills demonstrated

- Machine learning classification and model evaluation
- Feature engineering on financial data
- Risk modeling and credit scoring
- Fairness, bias detection, and ethical AI







Real-world outcome

A credit risk prediction model that assesses borrower default probability, along with a fairness audit to ensure responsible and unbiased lending decisions in real-world financial applications



Built with

-  Python
-  XGBoost for modeling
-  SHAP for model explainability
-  Matplotlib



Your deliverable

Portfolio ready live project, white paper, and public GitHub repo



Program Structure: AI Immersive (1:1)



AI Immersive offers **25 hours of 1:1 mentorship** from an industry expert. Most students complete it in **10-12 weeks**.

A Learning Experience Built Around You

- Learn at your own pace with flexible scheduling.
- All ages welcome - middle school through adult learners.
- Every skill level - from your first line of code to advanced projects.

THE JOURNEY



ONBOARDING & MENTOR MATCHING

We pair you with a mentor who aligns with your interests, timezone, and project goals. The kickoff includes orientation and an initial project discussion and brainstorming!



PERSONALIZED GOAL SETTING & CURRICULUM

Your mentor defines clear learning outcomes, maps weekly milestones, and builds a personalized curriculum tailored to your experience level.



FOUNDATIONAL LEARNING

Learn essential AI concepts, tools, and techniques through hands-on, mentor-guided sessions covering Python, Data Handling, and ML Model basics.



PROJECT BUILD

Apply your skills to develop a complete AI project with technical guidance, troubleshooting support, and iterative improvements from your mentor.



PRESENTATION & EXPERT REVIEW

Present your completed project for expert evaluation and receive detailed feedback with a roadmap for next steps.



REFERRAL LETTER & NETWORKING SUPPORT

Students who complete the program and complete the project receive a mentor-endorsed letter for college or internship applications.

Support Beyond Sessions

- ✉ After-hours email and chat support from mentors.
- 📱 Messaging, Scheduling Sessions via CrimsonApp.
- ⏸ Ability to Pause program during busy times (exam season etc).
- 🏠 Be part of Delta AI Discord Community.

Program Structure: AI Intensive (Cohort)



Five weekends. Two real AI projects.
One portfolio that sets you apart.

PROGRAM FORMAT

- 14 hours of live, instructor-led group learning
- 2 hours of exclusive 1:1 mentorship
- Unlimited Teaching Assistant support via Discord
- Demo Day showcase to close the program

THE JOURNEY



WEEK 1 | SET UP + SHIP YOUR FIRST AI APP

Set up Python and your development environment. Build and customize an AI chatbot. Publish your first project on GitHub.



WEEK 2 | EXPLORE AI + DEFINE YOUR PROJECT

Learn how AI processes language and images. Enhance your chatbot with new AI capabilities. Choose your interdisciplinary project topic.



WEEK 3 | REFINE + PREPARE

Improve your project with mentor feedback. Learn to present technical work clearly. Begin your 1:1 mentorship sessions.



WEEK 4 | BUILD YOUR AI PROJECT






Develop an AI tool in a field you care about. Work with mentors to build a functional prototype. Use real data and practical tools.







WEEK 5 | LAUNCH + DEMO DAY

Deploy your project as a live website. Finalize deliverables with mentor support. Present your work at Demo Day.

WHAT YOU'LL WALK AWAY WITH

-  Two AI projects aligned to your interests
-  Live website or shareable demo links
-  Public GitHub repos with clean READMEs
-  Slide deck, demo video, and short white paper
-  Certificate of completion and mentor recommendation letter

Support
Beyond
Sessions

-  After-hours email and chat support from mentors.
-  Messaging, Scheduling Sessions via CrimsonApp.
-  Ability to Pause program during busy times (exam season etc).
-  Be part of Delta AI Discord Community.



Ready to Build Your Own AI x Finance Project?



REGISTER YOUR INTEREST

Hayato M.

Delta AI Immersive Alumni, Project: **Neural Fold**

"I never thought I could create a project that **integrates my culture and AI**. This experience has opened new doors for me."



Aysel B.

Delta AI Intensive Alumni, Project: **Nananet Chatbot**

"The Delta AI program was an **incredible experience fast-paced, engaging, and perfectly structured**. I loved how each session built on the previous one, **making even complex AI concepts feel achievable.**"



Learn from the best!



Not into Finance?
Explore AI projects in other fields too.

Medicine | Biology

Music | Fine Arts

Mechanical Engineering

Environment | Sustainability

Law | Public Policy

And Many More!!